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Sheet 1 of 1

Application Number	10/622,833
Filing Date	July 21, 2003
First Named Inventor	Richard A. SCHUMACHER et al
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	MEMORY-28

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Date Considered

12/8/05

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		Number	Kind Code <sup>2</sup> (if known)			
RL		5,622,977		Warrellow et al.	04/22/1997	
RL		5,633,257		Warrellow et al.	05/27/1997	
RL		5,679,696		Fenton et al.	10/21/1997	
RL		5,693,659		Head et al.	12/02/1997	
RL		5,698,711		Palfreyman	12/16/1997	
RL		5,710,160		Guay et al.	01/20/1998	
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RL		6,200,993		Cote et al.	03/13/2001	

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*Rebecca J. Anderson*

Date  
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Sheet 2 of 5

Application Number	10/622,833
Filing Date	July 21, 2003
First Named Inventor	Richard A. SCHUMACHER et al
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	MEMORY-28

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RA		6,204,275		Friesen et al.	03/20/2001	
RA		6,245,774		Warrellow et al.	06/12/2001	
RA		6,297,264		Head et al.	10/02/2001	
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RA	3	6,040,329			3/21/2000	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
RA		FR	2729142	A1	Nadler et al.	07/12/1996		
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RA		WO	02 059110		PCT	8/1/2002		
RA		WO	97 00868		PCT	1/9/1997		1
RA		WO	98 09961		PCT	3/12/1998		2
RA		WO	97 49702		PCT	12/31/1997		3
RA		WO	00 69841		PCT	11/23/2000		

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Sheet

3

of

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Filing Date	July 21, 2003
First Named Inventor	Richard A. SCHUMACHER et al
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	MEMORY-28

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
RG		HEILMAN et al, "Synthesis and Antiinflammatory Evaluation of Substituted Isophthalonitriles, Trimesonitriles, Benzonitriles, and Terephthalonitriles", Journal of Medicinal Chemistry, 1978, Vol. 21, No. 9, pp. 906-913, XP-002226236	
RG		WATANABE et al, "Structure-Activity Relationship and Rational Design of 3,4-Dephosphatase Derivatives as Protein Tyrosine Phosphatase Inhibitors", Pergamon Tetrahedron, 2000, Vol. 56, pp. 741-752	
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RG		JAMES L. KELLEY et al., "Synthesis and Structure- Activity Relationships of 2-Substituted-6-(dimethylamino)- 9-(4-methylbenzyl)-9H-purines with Antirhinovirus Activity," J. Med. Chem., 1989, pp. 218-224, Vol. 32	
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*Richard A. Schumacher*

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Application Number

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First Named Inventor

Richard A. SCHUMACHER et al

Group Art Unit

Unassigned

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Rt		ROGER J. SCHILLING et al., "A High-Throughput Assay For Cyclic Nucleotide Phosphodiesterases," <u>Analytical Biochemistry</u> , 1994, pp.154-158, Vol. 215	
Rb		DONALD V. DANIELS et al., "A Semiautomated Method for the Assay of Cyclic Adenosine 5'-Monophosphate Phosphodiesterase," <u>Analytical Biochemistry</u> , 1996, pp. 367-369, Vol. 236	
Rb		JEAN-JACQUES BOURGUIGNON et al., "9-Benzyladenines: Potent and Selective cAMP Phosphodiesterase Inhibitors," <u>J. Med. Chem.</u> , 1997, pp. 1768-1770, Vol. 40	
Rb		JAMES L. KELLEY et al., "6-(Alkylamino)-9-alkylpurines. A New Class of Potential Antipsychotic Agents," <u>J. Med. Chem.</u> , 1997, pp. 3207-3216, Vol. 40	
Rb		HIROYUKI SAWANISHI et al., "Selective Inhibitors of Cyclic AMP-Specific Phosphodiesterase: Heterocycle-Condensed Purines," <u>J. Med. Chem.</u> , 1997, pp. 3248-3253, Vol. 40	
Rb		J.E. SOUNNES et al., "Proposal for Pharmacologically Distinct Conformers of PDE4 Cyclic AMP Phosphodiesterases," <u>Cell Signal</u> , 1997, pp. 227-236. Vol. 9, No. 3-4	
Rb		MARY ELIZABETH BACH et al., "Age-related defects in spatial memory are correlated with defects in the late phase of hippocampal long term potentiation <i>in vitro</i> and are attenuated by drugs that enhance the cAMP signaling pathway," <u>Proc. Natl. Acad. Sci. USA</u> , April 1999, pp.5280-5285, Vol. 96	
Rb		ELISABETH BOICHOT et al., "Anti-Inflammatory Activities of a New Series of Selective Phosphodiesterase 4 Inhibitors Derived from 9- Benzyladenine," <u>The Journal Of Pharmacology And Experimental Therapeutics</u> , 2000, pp. 647-653, Vol 292, No.2	
Rb		Anil S. GURAM et al., "A Simple Catalytic Method for the conversion of Aryl Bromides to Arylamines," <u>Angew. Chem. Int. Ed. Engl.</u> , 1995, Vol. 34, No. 12, pp. 1348-1350.	
Rb		Michael S. DRIVER et al., "A Second-Generation Catalyst for the Aryl Halide Amination: Mixed Secondary Amines from Aryl Halides and Primary Amines Catalyzed by (DPPF)PdCl <sub>2</sub> ," <u>J. Am. Chem. Soc.</u> , 1996, Vol. 118, pp. 7217-7218.	
Rb		Takashi EGAWA et al., "Rolipram and its Optical Isomers, Phosphodiesterase 4 Inhibitors, Attenuated the Scopolamine-Induced Impairments of Learning and Memory in Rats," <u>J. Pharmacol.</u> , Vol. 75, 275-281(1997).	
Rb		Peng WANG et al., "Expression, Purification, and Characterization of Human cAMP-Specific Phosphodiesterase (PDE4) Subtypes A, B, C, and D," <u>Biochem. And Biophys. Research Comm.</u> , Vol. 234, 320-324 (1997).	

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BL		Domine M. T. CHAN et al., "New N- abd O-Arylations with Phenylboronic Acids and Cupric Acetate," <i>Tetrahedron Letters</i> , Vol. 39, 2933-2936 (1998).	
RA		Mark BARAD et al., "Rolipram, a Type IV-Specific Phosphodiesterase Inhibitor Facillitates the Establishment of Long-lasting Long-term Potentiation and Improves Memory," <i>Proc. Nall. Acad. Sci.</i> , Vol. 95, pp. 15020-15025 (December 1998).	
RL		Miles D. HOUSLAY et al., "The Multienzyme PDE4 Cyclic Adenosine Monophosphate-Specific Phosphodiesterase Family: Intracellular Targeting, Regulation, and Selective Inhibition by Compounds Exerting Anti-inflammatory and Antidepressant Actions," <i>Advances in Pharmacology</i> , Vol. 44, pp. 225-342, 1998.	
BL		John HARTWIG et al., "Room-Temperature Palladium-Catalyzed Amination of Aryl Bromides and Chlorides and Extended Scope of Aromatic C-N Bond Formation with a Commercial Ligand," <i>J. Org. Chem.</i> , 1999, Vol. 64, pp. 5575-5580.	
KL		Han-Ting ZHANG et al., "Inhibition of Cyclic AMP Phosphodiesterase (PDE4) Reverses Memory Deficits Associated with NDMA Receptor Antagonism," <i>Neuropsychopharmacology</i> , 2000, Vol. 23, pp. 198-204.	
GB		Han-Ting ZHANG et al., "Effects of Rolipram on Scopolamine-induced Impairment of Working and Reference Memory in the Radial-arm Maze tests in Rats," <i>Psychopharmacology (Berl)</i> 2000 June;150(3):pp. 311-6.	
RB		T.W. Greene et al., <i>Protective Groups in Organic Synthesis</i> , 3 <sup>rd</sup> Edition, Chapter 3, "Protection for Phenols and Catechols," pp. 246-292, John Wiley & Sons, 1999	
		International Search Report from PCT Application No. PCT/US02/01508, dated January 16, 2003	

Examiner Signature

*Katherine Anderson*

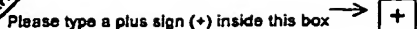
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Group Art Unit	1614
Examiner Name	Unassigned
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